

# LAYERS OF THE ATMOSPHERE

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Layers of the Atmosphere: An Exploration

The Earth's atmosphere is divided into five layers, each with unique characteristics. Understanding these layers is essential for grasping how our planet's environment works.

**Troposphere:** The lowest layer, extending from the surface to an altitude of about 10-12 km. It's where most weather occurs, and temperature decreases as altitude increases.

**Stratosphere:** The second layer, extending from the top of the troposphere to about 50 km. Temperature increases with altitude due to the presence of the ozone layer, which absorbs harmful ultraviolet radiation.

**Mesosphere:** The third layer, extending from the top of the stratosphere to about 85 km. Temperature decreases with altitude, and it's where many meteors burn up.

**Thermosphere:** The fourth layer, extending from the top of the mesosphere to about 600 km. Temperature increases significantly with altitude due to the absorption of high-energy solar radiation.

**Exosphere:** The outermost layer, extending from the top of the thermosphere into space. It's the least dense layer and contains very few molecules.



Source: Adapted from NASA's Earth Observatory.

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## Layers of the Atmosphere: An Exploration

1. Explain the vertical structure of the atmosphere.

2. Why do we have different layers?

3. How does the atmosphere protect life on Earth?

4. Which is the coldest layer?

5. Why is the thermosphere so hot?

6. What is the significance of the ozone layer?

7. How does the atmosphere interact with the Earth's surface?

8. What is the role of the atmosphere in climate change?

9. How does the atmosphere affect satellite communication?

10. What is the significance of the aurora borealis?

11. How does the atmosphere affect the growth of plants?

12. What is the role of the atmosphere in the water cycle?

13. How does the atmosphere affect the spread of diseases?

14. What is the significance of the greenhouse effect?

15. How does the atmosphere affect the speed of sound?

16. What is the role of the atmosphere in the formation of clouds?

17. How does the atmosphere affect the visibility of stars?

18. What is the significance of the ionosphere?

19. How does the atmosphere affect the propagation of radio waves?

20. What is the role of the atmosphere in the formation of the ozone hole?

Science Spot Snapshots

# Section 18 Water In The Atmosphere Guided Reading

**Erika Gombatz-Gasper**



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